

**METHOD FOR DISPLAYING IMAGES ON ELECTROLUMINESCENCE
DEVICES WITH STRESSED PIXELS**

ABSTRACT

[0036] A method and system for compensating stressed pixels on a light-emitting diode (LED) based display device is disclosed. After receiving a video data input for displaying a video image frame at a first frequency, one or more pixels in the video image frame are detected as stressed pixels. Based on the information for the stressed pixels, a primary sub-frame is displayed, the primary sub-frame having one or more stressed pixels with at least one of whose display parameters being degraded due to an accumulative usage of the LED display device. At least one secondary sub-frame is then displayed having the detected stressed pixels thereon with the degraded display parameter compensated. The primary and secondary sub-frames are displayed sequentially at a second frequency so that the separation of these two sub-frames is undetected by a viewer.